

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/580,076  
Source: IFWP  
Date Processed by STIC: 05/31/2006

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 05/31/2006

PATENT APPLICATION: US/10/580,076

TIME: 13:56:01

Input Set: A:\8764.000062.txt

Output Set: N:\CRF4\05312006\J580076.raw

3 <110> APPLICANT: Bayer BioScience N.V.  
 4 D'Halluin, Kathleen  
 5 Vanderstraeten, Chantal  
 6 Ruiter, Rene  
 8 <120> TITLE OF INVENTION: Improved targeted DNA insertion in plants  
 10 <130> FILE REFERENCE: BCS 03-2007 WO1  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/580,076  
 C--> 12 <141> CURRENT FILING DATE: 2006-05-18  
 12 <150> PRIOR APPLICATION NUMBER: EP 03078700.6  
 13 <151> PRIOR FILING DATE: 2003-11-18  
 15 <160> NUMBER OF SEQ ID NOS: 7  
 17 <170> SOFTWARE: PatentIn version 3.0  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 244  
 21 <212> TYPE: PRT  
 22 <213> ORGANISM: Saccharomyces cerevisiae  
 24 <400> SEQUENCE: 1  
 26 Met Ala Lys Pro Pro Lys Lys Lys Arg Lys Val Asn Ile Lys Lys Asn  
 27 1 5 10 15  
 29 Gln Val Met Asn Leu Gly Pro Asn Ser Lys Leu Leu Lys Glu Tyr Lys  
 30 20 25 30  
 32 Ser Gln Leu Ile Glu Leu Asn Ile Glu Gln Phe Glu Ala Gly Ile Gly  
 33 35 40 45  
 35 Leu Ile Leu Gly Asp Ala Tyr Ile Arg Ser Arg Asp Glu Gly Lys Thr  
 36 50 55 60  
 38 Tyr Cys Met Gln Phe Glu Trp Lys Asn Lys Ala Tyr Met Asp His Val  
 39 65 70 75 80  
 41 Cys Leu Leu Tyr Asp Gln Trp Val Leu Ser Pro Pro His Lys Lys Glu  
 42 85 90 95  
 44 Arg Val Asn His Leu Gly Asn Leu Val Ile Thr Trp Gly Ala Gln Thr  
 45 100 105 110  
 47 Phe Lys His Gln Ala Phe Asn Lys Leu Ala Asn Leu Phe Ile Val Asn  
 48 115 120 125  
 50 Asn Lys Lys Thr Ile Pro Asn Asn Leu Val Glu Asn Tyr Leu Thr Pro  
 51 130 135 140  
 53 Met Ser Leu Ala Tyr Trp Phe Met Asp Asp Gly Gly Lys Trp Asp Tyr  
 54 145 150 155 160  
 56 Asn Lys Asn Ser Thr Asn Lys Ser Ile Val Leu Asn Thr Gln Ser Phe  
 57 165 170 175  
 59 Thr Phe Glu Glu Val Glu Tyr Leu Val Lys Gly Leu Arg Asn Lys Phe  
 60 180 185 190  
 62 Gln Leu Asn Cys Tyr Val Lys Ile Asn Lys Asn Lys Pro Ile Ile Tyr  
 63 195 200 205

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```

65 Ile Asp Ser Met Ser Tyr Leu Ile Phe Tyr Asn Leu Ile Lys Pro Tyr
66      210                      215                      220
68 Leu Ile Pro Gln Met Met Tyr Lys Leu Pro Asn Thr Ile Ser Ser Glu
69 225                      230                      235                      240
71 Thr Phe Leu Lys
74 <210> SEQ ID NO: 2
75 <211> LENGTH: 732
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial
79 <220> FEATURE:
80 <223> OTHER INFORMATION: synthetic DNA sequence encoding I-SceI (UIPAC code)
82 <220> FEATURE:
83 <221> NAME/KEY: misc_feature
84 <222> LOCATION: (6)..(6)
85 <223> OTHER INFORMATION: N=A,G,C or T
88 <220> FEATURE:
89 <221> NAME/KEY: variation
90 <222> LOCATION: (25)..(27)
91 <223> OTHER INFORMATION: AGR
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126 <222> LOCATION: (103)..(105)
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132 <222> LOCATION: (112)..(114)
133 <223> OTHER INFORMATION: TTR
136 <220> FEATURE:
137 <221> NAME/KEY: variation

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Input Set : A:\58764.000062.txt

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139 <223> OTHER INFORMATION: TTR  
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143 <221> NAME/KEY: variation  
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145 <223> OTHER INFORMATION: TTR  
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149 <221> NAME/KEY: variation  
150 <222> LOCATION: (169)..(171)  
151 <223> OTHER INFORMATION: AGR  
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155 <221> NAME/KEY: variation  
156 <222> LOCATION: (172)..(174)  
157 <223> OTHER INFORMATION: AGY  
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161 <221> NAME/KEY: variation  
162 <222> LOCATION: (175)..(177)  
163 <223> OTHER INFORMATION: AGR  
166 <220> FEATURE:  
167 <221> NAME/KEY: variation  
168 <222> LOCATION: (244)..(246)  
169 <223> OTHER INFORMATION: TTR  
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173 <221> NAME/KEY: variation  
174 <222> LOCATION: (247)..(249)  
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180 <222> LOCATION: (265)..(267)  
181 <223> OTHER INFORMATION: TTR  
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186 <222> LOCATION: (268)..(270)  
187 <223> OTHER INFORMATION: AGY  
190 <220> FEATURE:  
191 <221> NAME/KEY: variation  
192 <222> LOCATION: (289)..(291)  
193 <223> OTHER INFORMATION: AGR  
196 <220> FEATURE:  
197 <221> NAME/KEY: variation  
198 <222> LOCATION: (301)..(303)  
199 <223> OTHER INFORMATION: TTR  
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203 <221> NAME/KEY: variation  
204 <222> LOCATION: (310)..(312)  
205 <223> OTHER INFORMATION: TTR  
208 <220> FEATURE:  
209 <221> NAME/KEY: variation  
210 <222> LOCATION: (361)..(363)

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Input Set : A:\58764.000062.txt

Output Set: N:\CRF4\05312006\J580076.raw

211 <223> OTHER INFORMATION: TTR  
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229 <223> OTHER INFORMATION: TTR  
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233 <221> NAME/KEY: variation  
234 <222> LOCATION: (436)..(438)  
235 <223> OTHER INFORMATION: AGY  
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239 <221> NAME/KEY: variation  
240 <222> LOCATION: (439)..(441)  
241 <223> OTHER INFORMATION: TTR  
244 <220> FEATURE:  
245 <221> NAME/KEY: variation  
246 <222> LOCATION: (490)..(492)  
247 <223> OTHER INFORMATION: AGY  
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252 <222> LOCATION: (502)..(504)  
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258 <222> LOCATION: (511)..(513)  
259 <223> OTHER INFORMATION: TTR  
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264 <222> LOCATION: (523)..(525)  
265 <223> OTHER INFORMATION: AGY  
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277 <223> OTHER INFORMATION: TTR  
280 <220> FEATURE:  
281 <221> NAME/KEY: variation  
282 <222> LOCATION: (565)..(567)  
283 <223> OTHER INFORMATION: AGR

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DATE: 05/31/2006

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TIME: 13:56:01

Input Set : A:\58764.000062.txt

Output Set: N:\CRF4\05312006\J580076.raw

286 <220> FEATURE:  
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294 <222> LOCATION: (631)..(633)  
295 <223> OTHER INFORMATION: AGY  
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299 <221> NAME/KEY: variation  
300 <222> LOCATION: (637)..(639)  
301 <223> OTHER INFORMATION: AGY  
304 <220> FEATURE:  
305 <221> NAME/KEY: variation  
306 <222> LOCATION: (643)..(645)  
307 <223> OTHER INFORMATION: TTR  
310 <220> FEATURE:  
311 <221> NAME/KEY: variation  
312 <222> LOCATION: (658)..(660)  
313 <223> OTHER INFORMATION: TTR  
316 <220> FEATURE:  
317 <221> NAME/KEY: variation  
318 <222> LOCATION: (673)..(675)  
319 <223> OTHER INFORMATION: TTR  
322 <220> FEATURE:  
323 <221> NAME/KEY: variation  
324 <222> LOCATION: (697)..(699)  
325 <223> OTHER INFORMATION: TTR  
328 <220> FEATURE:  
329 <221> NAME/KEY: variation  
330 <222> LOCATION: (712)..(714)  
331 <223> OTHER INFORMATION: AGY  
334 <220> FEATURE:  
335 <221> NAME/KEY: variation  
336 <222> LOCATION: (715)..(717)  
337 <223> OTHER INFORMATION: AGY  
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341 <221> NAME/KEY: variation  
342 <222> LOCATION: (727)..(729)  
343 <223> OTHER INFORMATION: TTR  
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348 <222> LOCATION: (12)..(12)  
349 <223> OTHER INFORMATION: N = A, G, C or T  
352 <220> FEATURE:  
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354 <222> LOCATION: (15)..(15)  
355 <223> OTHER INFORMATION: N = A, G, C or T  
358 <220> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/580,076

DATE: 05/31/2006  
TIME: 13:56:02

Input Set : A:\58764.000062.txt  
Output Set: N:\CRF4\05312006\J580076.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 6, 11, 15, 27, 33, 54, 63, 66, 69, 75, 81, 84, 99, 105, 114, 135, 138, 144  
Seq#:2; N Pos. 147, 153, 156, 162, 171, 174, 177, 184, 192, 225, 240, 246, 249, 264, 267  
Seq#:2; N Pos. 270, 273, 276, 291, 294, 303, 306, 312, 315, 321, 327, 330, 336, 351, 363  
Seq#:2; N Pos. 366, 372, 381, 396, 402, 411, 414, 426, 429, 432, 438, 441, 444, 465, 468  
Seq#:2; N Pos. 492, 495, 504, 510, 513, 519, 525, 531, 543, 552, 555, 561, 564, 567, 582  
Seq#:2; N Pos. 594, 615, 633, 638, 645, 660, 668, 675, 681, 699, 702, 708, 714, 717, 723  
Seq#:2; N Pos. 729

**Invalid <213> Response:**

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:2,3,4,5,6,7

**VERIFICATION SUMMARY**

DATE: 05/31/2006

PATENT APPLICATION: US/10/580,076

TIME: 13:56:02

Input Set : A:\58764.000062.txt

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:911 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:913 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:60  
L:915 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:120  
L:917 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:180  
L:919 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:240  
L:921 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:300  
L:923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:360  
L:925 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:420  
L:927 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:480  
L:929 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:540  
L:931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:600  
L:933 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:660  
L:935 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:720